

INSTRUCTIONS TO FABRICATOR

PROJECT PLANS SHOW:

1. Sign structure location.
2. Length of structure frame.
3. Panel size and locations on structure.
4. Walkway length for 2-post signs.
5. Post type and height to bottom of frame.
6. Base plate elevation.
7. Footing elevation or location of pile foundation.
8. Photoelectric cell location if required.

REFER TO THE FOLLOWING STANDARD PLANS FOR DETAILS NOT SHOWN ON PROJECT PLANS:

- S1 Instructions and Examples
- S2 Post Types II Thru VIII
- S3 Post Types I-S Thru VII-S
- S4 Structural Frame Members
- S5 Structural Frame Members
- S6 Structural Frame Details
- S7 Frame Junction Details
- S8A,B,C,D Sign Panel Mounting Details
- S9 Walkway Details No 1
- S10 Walkway Details No 2
- S11 Walkway Safety Railing Details
- S13 Pile Foundation
- ES-15A Mercury Sign Lighting Equipment
- ES-15C Sign Lighting Equipment

WALKWAY BRACKETS:

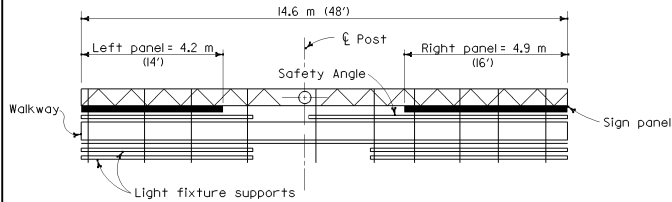
Space all walkway brackets maintaining uniform spacing where possible. Maximum spacing shall not exceed 1675 mm (66").

LIGHTING FIXTURE SUPPORTS:

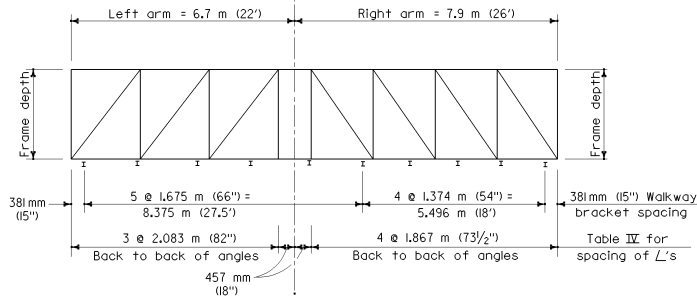
Where distance from walkway bracket to end of sign panel exceeds 406 mm (16"), extend lighting fixture supports to next walkway bracket. See Example No. 2.

WALKWAY AND SAFETY RAILING:

Walkway to be continuous for entire length of frame for single post signs. For 2 post signs see Project Plans. Safety railing to protect entire walkway, but continuous for no more than 3.35 m (11') in one unit.

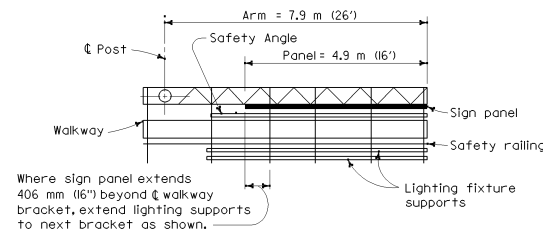


PLAN



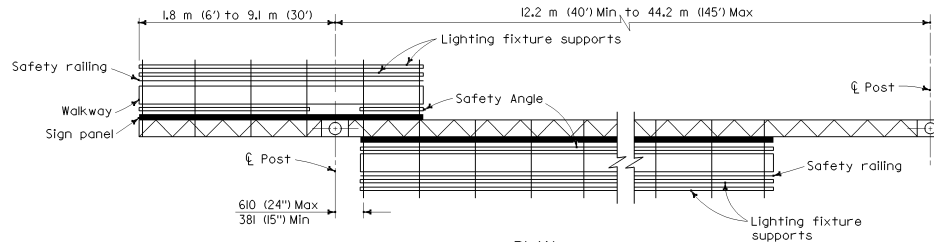
UNBALANCED SINGLE POST TYPE

Example No. 1



PLAN
CANTILEVER SINGLE
POST TYPE

Example No. 2



PLAN
TWO POST TYPE WITH CANTILEVER
(PART DOUBLE-FACED)

Example No. 3

NOTES

SPECIFICATIONS:

DESIGN: AASHTO Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, dated 1994.

CONSTRUCTION: Standard Specifications and the Special Provisions.

LOADING:

WIND LOADING:
Normal to face of sign: 1490 Pa (31psf)
Transverse to face of sign: 20% of normal force.

WALKWAY LOADING:
Dead load + 2.22 kN (500 lbs) concentrated live load.

UNIT STRESSES:

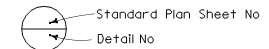
STRUCTURAL STEEL: $f_s = 138 \text{ MPa}$ (20,000 psi)
REINFORCED CONCRETE: $f_s = 138 \text{ MPa}$ (20,000 psi)
 $f_c = 8.3 \text{ MPa}$ (1,200 psi)
FOOTING SOIL PRESSURE: 120 kPa (2,500 psf) (spread footing)

MINIMUM CLEARANCE: Vertical roadway clearance 5.5 m (18').

WELDING: All welding continuous unless otherwise noted on the plans. All welding to be done in accordance with the Standard Specifications.

NOTE

Signs are shown and dimensioned looking in the direction of traffic. Double faced signs are shown and dimensioned looking ahead along stationing.



Standard Plan Sheet No

Detail No

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGNS-TRUSS INSTRUCTIONS AND EXAMPLES

These "Standard Plans for Construction of Local Streets and Roads" contain units in two systems of measurement: International System of Units (SI or "metric") and United States Standard Measures shown in the parentheses (). The measurements expressed in the two systems are not necessarily equal or interchangeable. See the "Foreword" at the beginning of this publication.

NO SCALE

S1

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

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REGISTERED CIVIL ENGINEER

July 1, 2002
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

Caltrans now has a web site! To get to the web site, go to: <http://www.dot.ca.gov>

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Exp. 3-31-03
STATE OF CALIFORNIA